

CLAIMS

1. A method of removing harmful substance characterized by comprising contacting a harmful substance-containing liquid to be treated with a double-stranded DNA, adsorbing the harmful substance onto the double-stranded DNA through intercalation, and separating it.
2. The method of removing harmful substance according to claim 1, wherein the harmful substance is dioxins.
3. An adsorbent used for the method of removing harmful substance according to claim 1, characterized by comprising a double-stranded DNA or a solution containing a double-stranded DNA enclosed in a container or a bag made of a membrane that is permeable for the harmful substance but is not permeable for the double-stranded DNA.
4. An apparatus for removing harmful substance, which is used for the method of removing harmful substance according to claim 1, characterized in that comprises a contact bath having at least two spaces that is divided by a membrane that is permeable for a harmful substance but is not permeable for a double-stranded DNA; a double-stranded DNA solution circulating means for circulating a double-stranded DNA containing solution and flowing the double-stranded DNA containing solution in one space through the membrane; and a means for circulating a liquid to be treated, for circulating a harmful substance-containing liquid to be treated, and flowing the liquid to be treated in the other space through the membrane, and wherein the harmful substance is transmitted through the membrane from the liquid to be treated to the double-stranded DNA containing solution, and separated.
5. The apparatus for removing harmful substance according to claim 4, wherein the membrane is formed of hollow threads, and the contact bath is divided into a space outside the hollow threads and a space inside the hollow threads.
6. An apparatus for removing harmful substance, which is used for the method of removing harmful substance according to claim 1, characterized in that comprises

a contact bath having an adsorbent containing a double-stranded DNA in non-free state; and

a means for circulating a liquid to be treated, for circulating a harmful substance-containing liquid to be treated, in such a manner that the liquid is flown in the contact bath,

and wherein the adsorbent comprises a double-stranded DNA or a solution containing a double-stranded DNA enclosed in a container or a bag made of a membrane that is permeable for the harmful substance but is not permeable for the double-stranded DNA,

and wherein the harmful substance is transmitted from the liquid to be treated to the adsorbent, and separated.